CHICAGO (AP) — A man who has devoted his scientific career to a study of the causes of cancer contended Saturday that air pollution is a more important fac-

lution is a more important ractor than cigarette smoking in the
increase in lung cancer.

Dr. Wilhelm C. Hueper, chief
of the Environmental Cancer
Section, National Cancer Institute, Bethesda, Md., said an upsurge in lung cancer first was
noted between 1900 and 1920, sevseral was a before the practice of

eral years before the practice of cigarette smoking became wide-

And he added that exposure to

cancer-causing agents must occur at least 10 to 15 years before an

tions of cancer causing agents and that smoke also can act as an irritant that weakens the lungs' normal defense mecha-

spread.

## THE NEW YORK TIMES NEW CLUE FOUND New York, New York December 9, 1959 Cigarette Smoke and Smog North Carolina Durham, North Carolina December 27, 1959 Tract Defense Ability

Durham, North Carolina
December 27, 1959

Air Pollution Said

More Deadly Than

Smoking In Cancer

CHICAGO (AP) — A man who

Cigarette smoke and air pol-

ed in two reports from scientists at the University of Bouthern California School of

foreign matter on the lining of the respiratory tract. The California scientists sug-

gest that impairment of this function by smoke and cigarette smoke may permit the abnormal retention of cancercausing chemicals there.

Cigarette Smoke and Smog
Said to Impair Respiratory
Tract Defense Ability
Tract Defense Ability

Cigarette smoke and air pollutants in smog may contribute to the development of lung cancer by interfering with the filluds and minute hair-like structures in the lining of the esophagus and adjoining portions of the structures in the lining of the esophagus and adjoining portions of the structures in the lining of the esophagus and adjoining portions of the structures in the lining of the esophagus and adjoining portions of the respiratory tract.

The scientists used the cillibrate structures in the lining of the esophagus and adjoining portions of the respiratory tract in mammals such as man. Parallel studies on mammals permitted the relation of their findings on frogs to higher animals, they

studies on mammals permitted tists at the University of the relation of their findings on frogs to higher animals, they wrote.

Medicine that appear in the November number of The Journal of the National Cancer Institute, just out:

According to the reports, naticular of their components, as well as smoke from both filtered and nonfiltered cigarettes, affect the respiratory tract's defense mechanisms in three ways.

They slow the flow of the mucous stream, change the physical properties of the mucous and decrease the whipited eaction of the fine structures action of the first reaction was an interest action of the first reaction was an interest action of the first reaction of the mucous and cliia are known to the first action of the first reaction of the structures action of the first reaction was observed action of the first reaction of the structure action of the first reaction was observed action of the first reaction of the structure action of the structure action of the first reaction was observed action of

phere by industry are the principal agents responsible for the pall agents responsible for the policy of the pall agents bustion of gasoline. Industrial plants, he went on, should seek to perfect a system whereby the air workers breath would be free

from vapors, gases and lumes.

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cancer-causing agents must call at least 10 to 15 years before an increase in such deaths is detected statistically.

Hueper made his remarks during an interview at the annual meeting of the American Assn. for the Advancement of Science where he received the \$1,000

AAAS-Anne Franco Rosenthal Memorial Award for cancer research.

Hueper, 55, said exhaust fumes from gasoline and coal tar by
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Hueper for no blood ocholesterol levels (Dr. Irvine H. Page, Clevel and heart specialist, reported today.

He said that he and two as
search Are Reported Unchanged

CHICAGO, Nov. 13 (UPI)

Smoking appears to have no
effect on blood cholesterol levels, Dr. Irvine H. Page, Cleveland heart specialist, reported
today.

He said that he and two associates had concluded after a
study that if smoking played
a role in causing heart attacks
it was not through any effect
On cholesterol.

Cholesterol is a fat-like sub-

on cholesterol.

Cholesterol is a fat-like substance in the blood, it has been implicated as a cause of heart attacks. Many investigators believe there is evidence of a conception. peve there is evidence of a connection between high cholesterol
leveis and hardening of the
arteries.
The report by Dr. Page was
in The Journal of the American
Medical Association.

U.S. NEWS & WORLD REPORTS Washington, D. C. November 30, 1959 

SMOKING. Smoking appears to have no effect on cholesterol levels in the . blood, according to a study published in the "Journal of the American Medical Association." Dr. Irving H. Page, Cleveland heart specialist, and two associates report that, if smoking plays any role in heart attacks, it is not through cholesterol--the fatlike substance that has been linked with heart disease. report that, if smoking plays any role in heart attacks, it is not through